FACT SHEET
FOR
STATE OF FLORIDA DOMESTIC WASTEWATER FACILITY PERMIT

PERMIT NUMBER: FL0020940 (Major)

FACILITY NAME: Tampa City of - Howard F. Curren AWWTP

FACILITY LOCATION: 2700 Maritime Blvd, Tampa, FL 33605-6744
Hillsborough County

NAME OF PERMITTEE: City of Tampa - Wastewater Department

PERMIT WRITER: Astrid Flores Thiebaud

1. SUMMARY OF APPLICATION

a. Chronology of Application

Application Number: FL0020940-019-DW1P

Application Submittal Date: May 22, 2015

Additional Information: July 30, 2015

b. Type of Facility

Domestic Wastewater Treatment Plant

Ownership Type: Municipal

SIC Code: 4952

c. Facility Capacity

Existing Permitted Capacity:	96 mgd Annual Average Daily Flow
Proposed Increase in Permitted Capacity:	0 mgd Annual Average Daily Flow
Proposed Total Permitted Capacity:	96 mgd Annual Average Daily Flow

d. Description of Wastewater Treatment

An existing 96.0 MGD Annual Average Daily Flow (AADF) permitted capacity Type I two-stage, high rate (pure oxygen and fine bubble aeration) activated sludge biological nitrification/denitrification domestic wastewater treatment plant. The facility has the capability to operate in a number of modes as described in the submitted basis of design. The facility includes the following units: Pre-aeration with odor control consisting of three tanks of 0.670 MG total volume, mechanical screening and grit removal consisting of eight tanks of 0.727 MG total volume, eight primary sedimentation tanks of 50,464 square feet total surface area and 4.94 MG total volume, six pure oxygen reactors of 7.62 MG total volume, twelve carbonaceous sedimentation tanks of 201,552 square feet total surface area and 18.08 MG total volume, four nitrification reactors of 8.48 MG total volume, eight final sedimentation tanks of 134,368 square feet total surface area and 12.00 MG total volume, thirty-two coarse sand, denitrification filters of 33,600 square feet total surface area, three chlorine contact chambers of 2.38 MG total volume with post aeration, and dechlorination facilities, two gravity sludge thickeners of 0.350 MG total volume, seven anaerobic digesters of 9.87 MG total volume, sludge storage tanks, eight belt filter presses, sludge heat drying facility and fifty-seven sludge drying beds and other associated facilities.

This plant is operated to achieve Advanced Wastewater Treatment (AWT), with high-level disinfected and dechlorinated effluent discharged to Hillsborough Bay. Residuals generated by this facility are heat dried to meet

Class AA or Class A standards for distribution and marketing or are dewatered for land application as a Class B residual.

e. Description of Effluent Disposal and Land Application Sites (as reported by applicant)

Surface Water Discharge D-001: An existing 96.0 MGD AADF flow discharge to Hillsborough Bay (Upper), Class III Marine waters, (WBID# 1558E) which is approximately 141 feet in length and discharges at a depth of approximately 29.1 feet. The point of discharge is located approximately at latitude 27°54' 41" N, longitude 82°26' 27" W.

Surface Water Discharge D-002: An existing intermittent discharge to Ybor City Drain, Class III Marine waters, (WBID# 1584A) which discharges at a depth of approximately 4.5 feet. Ybor City Drain flows into WBID 1558E of Hillsborough Bay (Upper). Outfall D-002 shall only discharge as result of flows to the treatment plant in excess of approximately 100 MGD coupled with extreme high tide conditions. The point of discharge is located approximately at latitude 27°54' 41" N, longitude 82°26' 27" W.

Surface Water Discharge D-003: An existing intermittent discharge to Ybor City Drain, Class III Marine waters, (WBID# 1584A) which discharges at a depth of approximately 6.8 feet. Ybor City Drain flows into WBID 1558E of Hillsborough Bay (Upper). Outfall D-003 shall only discharge as result of flows to the treatment plant in excess of approximately 100 MGD coupled with extreme high tide conditions. The point of discharge is located approximately at latitude 27°54' 41" N, longitude 82°26' 27" W.

Mixing zone: The permittee is granted a mixing zone for Dichlorobromomethane and Dibromochloromethane for the effluent discharge at Outfalls D-001, D-002 and D-003. The mixing zone for Dichlorobromomethane has a circular area of 1.0 meter radius, with a total surface area of 3.14 square meters, centered over the outfall(s). The mixing zone for Dibromochloromethane has a circular area of 1.17 meters radius, with a total surface area of 4.3 square meters, centered over the outfall(s).

REUSE:

Land Application R-001: An existing 6.0 MGD AADF permitted capacity slow-rate public access system (City of Tampa Public Access Reuse System) consisting of the City of Tampa service area as outlined on attachment VI on the permit application.

Industrial Reuse R-002: An existing 2.3 MGD AADF permitted capacity Part VII industrial reuse system providing Part III quality reclaimed water for use as cooling water and minor irrigation at the City of Tampa Reuse to Energy Facility (McKay Bay Facility). R-002 is located approximately at latitude 27°56' 56" N, longitude 82°25' 19" W.

Industrial Reuse R-003: An existing 4.32 MGD annual average daily flow permitted industrial reuse system (R-003) providing secondary treatment reclaimed water to a closed-loop system for heating purposes at Mosaic Fertilizer, LLC (Formerly CF Industries). R-003 is located approximately at latitude 27°55' 02" N, longitude 82°26' 14" W.

2. SUMMARY OF SURFACE WATER DISCHARGE

a. This facility does not have a new or expanded discharge to surface waters.

b. The Department does not anticipate adverse impacts on threatened or endangered species as a result of permit issuance.

c. The following exceedances were noted during the previous permit cycle at Outfall D-001:

Date	Parameters	Value	Limit	Units
5/31/12	IC25 Statre 7day Chronic Ceriodaphnia	6.6	100	percent
10/31/12	IC25 Statre 7day Chronic Ceriodaphnia	19	100	percent

1/31/13	IC25 Statre 7day Chronic Ceriodaphnia	7.8	100	percent
10/31/13	IC25 Statre 7day Chronic Ceriodaphnia	8.3	100	percent
7/31/14	IC25 Statre 7day Chronic Ceriodaphnia	86	100	percent
10/31/14	IC25 Statre 7day Chronic Ceriodaphnia	8.3	100	percent
8/31/12	pH	6.4	6.5 (min)	s.u.
9/30/12	pH	6.3	6.5 (min)	s.u.
10/31/14	pH	6.3	6.5 (min)	s.u.
10/31/12	Total Recoverable Cooper	3.9	3.7	ug/L
1/31/13	Total Recoverable Cooper	4.4	3.7	ug/L
4/30/13	Total Recoverable Cooper	4.3	3.7	ug/L
11/30/13	Coliform, Fecal, % less than detection	63	75	percent
12/31/13	Coliform, Fecal	77	25	#/100mL
10/31/14	Coliform, Fecal	34	25	#/100mL
9/30/13	Chlorine, Total Residual	.1	0.01(max)	mg/L
8/31/14	Chlorine, Total Residual	.1	0.01(max)	mg/L
12/31/14	Chlorine, Total Residual	1	0.01(max)	mg/L
1/31/13	Chlorine, Total Residual	.12	1.0 (min)	mg/L
8/31/13	Chlorine, Total Residual	.01	1.0 (min)	mg/L
10/31/14	Chlorine, Total Residual	.19	1.0 (min)	mg/L
12/31/14	Chlorine, Total Residual	.87	1.0 (min)	mg/L
1/31/13	Chlorodibromomethane	42.3	39	ug/L
2/28/13	Chlorodibromomethane	42.8	39	ug/L
3/31/13	Chlorodibromomethane	44.7	39	ug/L
4/30/13	Chlorodibromomethane	45	39	ug/L
5/31/13	Chlorodibromomethane	43.5	39	ug/L
6/30/13	Chlorodibromomethane	43.1	39	ug/L
7/1/13	Chlorodibromomethane	43.1	39	ug/L
7/31/13	Chlorodibromomethane	44.5	39	ug/L
8/31/13	Chlorodibromomethane	46	39	ug/L
9/30/13	Chlorodibromomethane	44.3	39	ug/L
10/31/13	Chlorodibromomethane	47.3	39	ug/L
11/30/13	Chlorodibromomethane	49.3	39	ug/L
12/31/13	Chlorodibromomethane	49.7	39	ug/L
1/31/14	Chlorodibromomethane	49.3	39	ug/L
2/28/14	Chlorodibromomethane	49.1	39	ug/L
3/31/14	Chlorodibromomethane	47.8	39	ug/L
4/30/14	Chlorodibromomethane	46.8	39	ug/L
5/31/14	Chlorodibromomethane	45.6	39	ug/L

3. BASIS FOR PERMIT LIMITATIONS AND MONITORING REQUIREMENTS

a. This facility is authorized to discharge effluent from Outfall D-001 to Hillsborough Bay (Upper) and Outfalls D-002 and D-003 to Ybor City Drain based on the following:

Parameter	Units	Max/ Min	Limit	Statistical Basis	Rationale
Flow (D-001)	MGD	Max	Report	Monthly Average	62-600.400(3)(b) FAC
Flow (D-001)	MGD	Max	96.0	Annual Average	62-600.400(3)(b) FAC

Parameter	Units	Max/ Min	Limit	Statistical Basis	Rationale
Flow (D-002)	MGD	Max	Report	Monthly Average	62-600.400(3)(b) FAC
Flow (D-002)	MGD	Max	Report	Annual Average	62-600.400(3)(b) FAC
Flow (D-003)	MGD	Max	Report	Monthly Average	62-600.400(3)(b) FAC
Flow (D-003)	MGD	Max	Report	Annual Average	62-600.400(3)(b) FAC
BOD, Carbonaceous 5 day, 20C	mg/L	Max	5.0	Annual Average	403.086(4)(a)1. FS & 62-600.740(1)(b)2.a. FAC
BOD, Carbonaceous 5 day, 20C	mg/L	Max	6.25	Monthly Average	62-600.740(1)(b)2.b. FAC
BOD, Carbonaceous 5 day, 20C	mg/L	Max	7.5	Weekly Average	62-600.740(1)(b)2.c. FAC
BOD, Carbonaceous 5 day, 20C	mg/L	Max	10.0	Single Sample	62-600.740(1)(b)2.d. FAC
Solids, Total Suspended	mg/L	Max	5.0	Annual Average	403.086(4)(a)2. FS & 62-600.740(1)(b)2.a. FAC
Solids, Total Suspended	mg/L	Max	6.25	Monthly Average	62-600.740(1)(b)2.b. FAC
Solids, Total Suspended	mg/L	Max	7.5	Weekly Average	62-600.740(1)(b)2.c. FAC
Solids, Total Suspended	mg/L	Max	10.0	Single Sample	62-600.740(1)(b)2.d. FAC
Solids, Total Suspended	mg/L	Max	5.0	Single Sample	62-600.440(5)(f)3. FAC
Nitrogen, Total	mg/L	Max	3.0	Annual Average	403.086(4)(a)3. FS & 62-600.740(1)(b)2.a. FAC
Nitrogen, Total	mg/L	Max	3.75	Monthly Average	62-600.740(1)(b)2.b. FAC
Nitrogen, Total	mg/L	Max	4.5	Weekly Average	62-600.740(1)(b)2.c. FAC
Nitrogen, Total	mg/L	Max	6.0	Single Sample	62-600.740(1)(b)2.d. FAC
Phosphorus, Total (as P)	mg/L	Max	Report	Annual Average	403.086(4) FS (Phosphorus waiver)
Phosphorus, Total (as P)	mg/L	Max	Report	Monthly Average	403.086(4) FS
Phosphorus, Total (as P)	mg/L	Max	Report	Single Sample	403.086(4). FS
pH	s.u.	Min	6.5	Single Sample	62-600.445 & 62-302.530 FAC
pH	s.u.	Max	8.5	Single Sample	62-600.445 & 62-302.530 FAC
Coliform, Fecal, % less than detection	percent	Min	75	Monthly Average	62-600.440(5)(f)1. FAC
Coliform, Fecal	#/100mL	Max	25	Single Sample	62-600.440(5)(f)2. FAC
Chlorine, Total Residual (For Disinfection)	mg/L	Min	1.0	Single Sample	62-600.440(5)(b) FAC
Chlorine, Total Residual (For Dechlorination)	mg/L	Max	0.01	Single Sample	62-600.440(2) & 62-302.530 FAC
Oxygen, Dissolved (DO)	mg/L	Min	5.0	Single Sample	62-302.533 FAC
Enterococci	#/100mL	Max	35	Monthly Geometric Mean	403.0885(2), FS
Enterococci	#/100mL	Max	276	Single Sample	403.0885(2), FS
Copper, Total Recoverable	ug/L	Max	3.7	Single Sample	62-302.530 FAC
Dichlorobromomethane	ug/L	Max	33.0	Annual Average	62-302.530 FAC
Dichlorobromomethane	ug/L	Max	Report	Monthly Average	62-302.530 FAC
Dibromochloromethane	ug/L	Max	39.0	Annual Average	62-302.530 FAC
Dibromochloromethane	ug/L	Max	Report	Monthly Average	62-302.530 FAC
Nitrogen, Total	ton/mth	Max	Report	Monthly Total	62-650 FAC Final Order Water Quality Based Effluent Limitations for Tampa Bay
Nitrogen, Total	ton/yr	Max	319.8	Annual Total	62-650 FAC Final Order Water Quality Based Effluent Limitations for Tampa Bay

Parameter	Units	Max/ Min	Limit	Statistical Basis	Rationale
Nitrogen, Total	ton/yr	Max	213.2	5 Year Average	62-650 FAC Final Order Water Quality Based Effluent Limitations for Tampa Bay
Chronic Whole Effluent Toxicity, 7-Day IC25 (Ceriodaphnia dubia)	percent	Min	100	Single Sample	62-302.530(20) & (61) FAC and 62-4.241(1)(b) FAC
Chronic Whole Effluent Toxicity, 7-Day IC25 (Pimephales promelas)	percent	Min	100	Single Sample	62-302.530(20) & (61) FAC and 62-4.241(1)(b) FAC

(1) Effluent limitations are based on a Level I WQBEL developed by District staff and available in the District permit files. Additionally, effluent limitations are based on Rule 62-302, F.A.C.-Class III Marine Standards, Rule 62-600, F.A.C. and 403.086, F.S

(2) Advanced Wastewater Treatment with high-level disinfection is required by Section 403.086(1)(c), F.S., for discharged effluent from this facility.

(3) This facility has provided reasonable assurance that the discharge will not adversely affect the designated use of the receiving water. Fifth year inspection data, as well as all other available data, have been evaluated in accordance with the Department's reasonable assurance procedures to ensure that no limits other than those included in this permit are needed to maintain Florida water quality standards.

(4) The receiving waters (Hillsborough Bay (Upper), WBID 1558E, and Ybor City Drain, WBID 1584A) were considered during the numeric nutrient criteria (NNC) evaluation for this facility.

(5) Ybor City Drain -WBID 1584A is on the EPA 303D list for Dissolved Oxygen (Nutrients), Fecal Coliform, Biochemical Oxygen Demand (BOD), and Chemical Oxygen Demand (COD). Additionally, WBIDs 1584A is on the FDEP verified impaired list for dissolved oxygen (nutrients) and Fecal Coliform.

(6) The receiving stream (Hillsborough Bay (Upper), WBID 1558E) is on the EPA 303D list for dissolved oxygen (Nutrients). Additionally, WBID 1558E is on the FDEP verified impaired list for dissolved oxygen and nutrients.

(7) The permit requires sampling for total nitrogen and total phosphorus, with permit limits that are established by Florida Statute (403.086, F.S.) and Rule 62-600.740, F.A.C. Total nitrogen and total phosphorus concentration limits remain the same as in the previous permit. There is no increase in permitted surface water discharge capacity for this facility, therefore no increase in nutrient loading is anticipated. Phosphorus in not a limiting nutrient for the receiving waters, therefore this facility qualifies for the phosphorus waiver under 403.086, F.S., and the phosphorus concentration limit is listed as report only.

(8) Total Nitrogen loading limitations are based on the facility allocation in the Final Order Adopting Water Quality Based Effluent Limits (WQBEL) for Point Source Discharges to the Tampa Bay Watershed. The loading limits established by the WQBEL ensure compliance with the numeric nutrient criteria established for Tampa Bay in Rule 62-302.532, F.A.C. In accordance with the WQBEL, the five year average total nitrogen load shall not exceed 213.20 tons/year.

(9) Tampa Bay is nitrogen-limited, therefore loading allocations in the WQBEL for Tampa Bay were established for Total Nitrogen only. Continued monitoring by the Department and the Tampa Bay Estuary program indicate the attainment of NNC in Tampa Bay.

(10) This facility is required to conduct chronic toxicity testing for this discharge based on conditions carrying over from the previous permit

(11) There is a statewide TMDL for mercury. The existing Industrial Pretreatment Plan incorporates the mercury minimization plan requirements of the statewide TMDL for mercury.

(12) The exceedances of Dichlorobromomethane and Dibromochloromethane are currently being addressed through the consent order discussed further below. The facility has requested to revise the existing mixing zones, which has been included as a scheduled item.

b. This facility is authorized to direct reclaimed water to Reuse System R-001 and R-002, a slow-rate public access system, based on the following:

Parameter	Units	Max/ Min	Limit	Statistical Basis	Rationale
Flow	MGD	Max	6.0	Annual Average	62-600.400(3)(b) & 62-610.810(5) FAC
Flow	MGD	Max	Report	Monthly Average	62-600.400(3)(b) & 62-610.810(5) FAC
Flow	MGD	Max	2.3	Annual Average	62-600.400(3)(b) & 62-610.810(5) FAC
Flow	MGD	Max	Report	Monthly Average	62-600.400(3)(b) & 62-610.810(5) FAC
BOD, Carbonaceous 5 day, 20C	mg/L	Max	20.0	Annual Average	62-610.460 & 62-600.740(1)(b)1.a. FAC
BOD, Carbonaceous 5 day, 20C	mg/L	Max	30.0	Monthly Average	62-600.740(1)(b)1.b. FAC
BOD, Carbonaceous 5 day, 20C	mg/L	Max	45.0	Weekly Average	62-600.740(1)(b)1.c. FAC
BOD, Carbonaceous 5 day, 20C	mg/L	Max	60.0	Single Sample	62-600.740(1)(b)1.d. FAC
Solids, Total Suspended	mg/L	Max	5.0	Single Sample	62-610.460(1) & 62-600.440(5)(f)3. FAC
pH	s.u.	Min	6.0	Single Sample	62-600.445 FAC
pH	s.u.	Max	8.5	Single Sample	62-600.445 FAC
Coliform, Fecal, % less than detection	percent	Min	75	Monthly Average	62-600.440(5)(f)1. FAC
Coliform, Fecal	#/100mL	Max	25	Single Sample	62-610.460 & 62-600.440(5)(f)2. FAC
Chlorine, Total Residual (For Disinfection)	mg/L	Min	1.0	Single Sample	62-600.440(5)(b), 62-610.460(2), & 62-610.463(2) FAC
Turbidity	NTU	Max	Report	Single Sample	62-610.463(2) FAC
Giardia	cysts/100L	Max	Report	Single Sample	62-610.463(4) FAC
Cryptosporidium	oocysts/100L	Max	Report	Single Sample	62-610.463(4) FAC

This facility is authorized to direct reclaimed water to Reuse System R-003, an industrial reuse system, based on the following:

Parameter	Units	Max /Min	Limit	Statistical Basis	Rationale
Flow	MGD	Max	4.32	Annual Average	62-600.400(3)(b); 62-610.810(5) FAC
Flow	MGD	Max	Report	Monthly Average	62-600.400(3)(b); 62-610.810(5) FAC
BOD, Carbonaceous 5 day, 20C	mg/L	Max	20.0	Annual Average	62-610.460 & 62-600.740(1)(b)1.a. FAC
BOD, Carbonaceous 5 day, 20C	mg/L	Max	30.0	Monthly Average	62-600.740(1)(b)1.b. FAC
BOD, Carbonaceous 5 day, 20C	mg/L	Max	45.0	Weekly Average	62-600.740(1)(b)1.c. FAC
BOD, Carbonaceous 5 day, 20C	mg/L	Max	60.0	Single Sample	62-600.740(1)(b)1.d. FAC

Parameter	Units	Max /Min	Limit	Statistical Basis	Rationale
Solids, Total Suspended	mg/L	Max	20.0	Annual Average	62-610.652 & 62-600.740(1)(b)1.a. FAC
Solids, Total Suspended	mg/L	Max	30.0	Monthly Average	62-600.740(1)(b)1.b. FAC
Solids, Total Suspended	mg/L	Max	45.0	Weekly Average	62-600.740(1)(b)1.c. FAC
Solids, Total Suspended	mg/L	Max	60.0	Single Sample	62-600.740(1)(b)1.d. FAC
pH	s.u.	Min	6.0	Single Sample	62-600.445 FAC
pH	s.u.	Max	8.5	Single Sample	62-600.445 FAC
Coliform, Fecal	#/100mL	Max	200	Annual Average	62-610.510 & 62-600.440(4)(c)1. FAC
Coliform, Fecal	#/100mL	Max	200	Monthly Geometric Mean	62-600.440(4)(c)2. FAC
Coliform, Fecal	#/100mL	Max	800	Single Sample	62-600.440(4)(c)4. FAC
Chlorine, Total Residual	mg/L	Max	0.5	Single Sample	62-600.440(5(b), 62-610.460(2), & 62-610.463(2) FAC

Other Limitations and Monitoring Requirements:

Parameter	Units	Max/ Min	Limit	Statistical Basis	Rationale
Flow	MGD	Max	96	Annual Average	62-600.400(3)(b) FAC
Flow	MGD	Max	Report	3-Month Rolling Average	62-600.400(3)(b) FAC
Flow	MGD	Max	Report	Monthly Average	62-600.400(3)(b) FAC
Percent Capacity, (TMADF/Permitted Capacity) x 100	percent	Max	Report	Monthly Average	62-600.405(4) FAC
BOD, Carbonaceous 5 day, 20C (Influent)	mg/L	Max	Report	Monthly Average	62-601.300(1) FAC
BOD, Carbonaceous 5 day, 20C (Influent)	mg/L	Max	Report	Single Sample	62-601.300(1) FAC
Solids, Total Suspended (Influent)	mg/L	Max	Report	Monthly Average	62-601.300(1) FAC
Solids, Total Suspended (Influent)	mg/L	Max	Report	Single Sample	62-601.300(1) FAC
Monitoring Frequencies and Sample Types	-	-	-	All Parameters	62-601 FAC & 62-699 FAC and/or BPJ of permit writer
Sampling Locations	-	-	-	All Parameters	62-601, 62-610.412, 62-610.463(1), 62-610.568, 62-610.613 FAC and/or BPJ of permit writer

4. DISCUSSION OF CHANGES TO PERMIT LIMITATIONS

The current wastewater permit for this facility FL0020940-015-DW1P and associated revisions FL0020940-016-DW1P, FL0020940-017-DW1P, and FL0020940-018-DW1P expires on November 23, 2015. The following items changed from the current permit:

a) The facility requested to adjust the 12 month rolling total and the 5-year average of the yearly totals to 319.8 and 213.2 tons/year, respectively. This is consistent with the nitrogen load allocation for this facility in the Tampa Bay WQBEL.

b) The facility requested to remove the Total Recoverable Nickel from the surface water monitoring requirements. The available data was entered into the reasonable assurance verification worksheet and the theoretical maximum sampling result was 56% of the parameter limit, therefore this parameter has been removed from the surface water sampling requirements.

c) Reporting of ground water monitoring results for Specific Conductance, Dissolved Oxygen and Temperature were removed from the groundwater monitoring plan as these parameters are used to demonstrate sample stability. Therefore, these parameters are not required to be reported on the DMRs, however the field parameters are recorded on sampling field sheets for quality assurance and quality control purposes (QA/QC).

d) The facility requested to remove three groundwater parameters from the permit monitoring requirements; Total Recoverable Cadmium, Total Recoverable Chromium, and Total Recoverable Lead. Removal of these three parameters was based on the Department evaluation of the data collected for 23 consecutive quarters from 06/01/09 to 12/31/14. The monitoring results for these metals were consistently below the regulatory limits for groundwater, therefore, the data was analyzed through the reasonable assurance verification worksheet (RAV). Based on the results of the RAV and best professional judgement, these parameters were removed from the groundwater monitoring plan.

5. BIOSOLIDS MANAGEMENT REQUIREMENTS

Biosolids generated by this facility may be land applied, distributed and marketed, transferred to Biosolids Treatment Facility (BTF) or disposed of in a Class I solid waste landfill.

See the table below for the rationale for the Class A and Class B biosolids limits and monitoring requirements.

Parameter	Units	Max/ Min	Limit	Statistical Basis	Rationale
Coliform, Fecal	CFU /g	Max	1,000.0	Single Sample	62-640.600(1)(b) FAC
Coliform, Fecal	CFU/g	Max	2,000,000	Geometric Mean	62-640.600(1)(b) FAC
Temperature	°F	Min	Report	Weekly	40 CFR Part 503
Time	Days	Min	Report	Weekly	40 CFR Part 503
Nitrogen, Sludge, Tot, Dry Wt (as N)	percent	Max	Report	Single Sample	62-640.650(1)(b) FAC
Phosphorus, Sludge, Tot, Dry Wt (as P)	percent	Max	Report	Single Sample	62-640.650(1)(b) FAC
Potassium, Sludge, Tot, Dry Wt (as K)	percent	Max	Report	Single Sample	62-640.650(1)(b) FAC
pH	s.u.	Max	Report	Single Sample	62-640.650(1)(b) FAC
Arsenic Total, Dry Weight, Sludge	mg/kg	Max	75.0	Single Sample	62-640.650(1)(b) & 700(1), FAC
Cadmium, Sludge, Tot, Dry Weight (as Cd)	mg/kg	Max	85.0	Single Sample	62-640.650(1)(b) & 700(1), FAC
Copper, Sludge, Tot, Dry Wt. (as Cu)	mg/kg	Max	4300.0	Single Sample	62-640.650(1)(b) & 700(1), FAC
Lead, Dry Weight, Sludge	mg/kg	Max	840.0	Single Sample	62-640.650(1)(b) & 700(1), FAC
Mercury, Dry Weight, Sludge	mg/kg	Max	57.0	Single Sample	62-640.650(1)(b) & 700(1), FAC
Molybdenum, Dry Weight, Sludge	mg/kg	Max	75.0	Single Sample	62-640.650(1)(b) & 700(1), FAC
Nickel, Dry Weight, Sludge	mg/kg	Max	420.0	Single Sample	62-640.650(1)(b) & 700(1), FAC
Selenium Sludge Solid	mg/kg	Max	100.0	Single Sample	62-640.650(1)(b) & 700(1), FAC
Zinc, Dry Weight, Sludge	mg/kg	Max	7500.0	Single Sample	62-640.650(1)(b) & 700(1), FAC
Monitoring Frequency		All Parameters			62-640.650(3)(a)4. FAC
Pathogen and vector attraction reduction monitoring		All Parameters			62-640.600 & 650(3)(a)1. FAC

See the table below for the rationale for the Class AA biosolids limits and monitoring requirements.

Parameter	Units	Max/ Min	Limit	Statistical Basis	Rationale
Nitrogen, Sludge, Tot, Dry Wt (as N)	percent	Max	Report	Monthly Average	62-640.650(3)(a)3. FAC
Phosphorus, Sludge, Tot, Dry Wt (as P)	percent	Max	Report	Monthly Average	62-640.650(3)(a)3. FAC
Potassium, Sludge, Tot, Dry Wt (as K)	percent	Max	Report	Monthly Average	62-640.650(3)(a)3. FAC
Arsenic Total, Dry Weight, Sludge	mg/kg	Max	75.0	Single Sample	62-640.700(5)(a) & 650(3)(a)3. FAC
Arsenic Total, Dry Weight, Sludge	mg/kg	Max	41.0	Monthly Average	62-640.700(5)(b) & 650(3)(a)3. FAC
Cadmium, Sludge, Tot, Dry Weight (as Cd)	mg/kg	Max	85.0	Single Sample	62-640.700(5)(a) & 650(3)(a)3. FAC
Cadmium, Sludge, Tot, Dry Weight (as Cd)	mg/kg	Max	39.0	Monthly Average	62-640.700(5)(b) & 650(3)(a)3. FAC
Copper, Sludge, Tot, Dry Wt. (as Cu)	mg/kg	Max	4300.0	Single Sample	62-640.700(5)(a) & 650(3)(a)3. FAC
Copper, Sludge, Tot, Dry Wt. (as Cu)	mg/kg	Max	1500.0	Monthly Average	62-640.700(5)(b) & 650(3)(a)3. FAC
Lead, Dry Weight, Sludge	mg/kg	Max	300.0	Monthly Average	62-640.700(5)(b) & 650(3)(a)3. FAC
Lead, Dry Weight, Sludge	mg/kg	Max	840.0	Single Sample	62-640.700(5)(a) & 650(3)(a)3. FAC
Mercury, Dry Weight, Sludge	mg/kg	Max	57.0	Single Sample	62-640.700(5)(a) & 650(3)(a)3. FAC
Mercury, Dry Weight, Sludge	mg/kg	Max	17.0	Monthly Average	62-640.700(5)(b) & 650(3)(a)3. FAC
Molybdenum, Dry Weight, Sludge	mg/kg	Max	75.0	Single Sample	62-640.700(5)(a) & 650(3)(a)3. FAC
Nickel, Dry Weight, Sludge	mg/kg	Max	420.0	Single Sample	62-640.700(5)(a) & 650(3)(a)3. FAC
Nickel, Dry Weight, Sludge	mg/kg	Max	420.0	Monthly Average	62-640.700(5)(b) & 650(3)(a)3. FAC
Selenium Sludge Solid	mg/kg	Max	100.0	Single Sample	62-640.700(5)(a) & 650(3)(a)3. FAC
Selenium Sludge Solid	mg/kg	Max	100.0	Monthly Average	62-640.700(5)(b) & 650(3)(a)3. FAC
Zinc, Dry Weight, Sludge	mg/kg	Max	7500.0	Single Sample	62-640.700(5)(a) & 650(3)(a)3. FAC
Zinc, Dry Weight, Sludge	mg/kg	Max	2800.0	Monthly Average	62-640.700(5)(b) & 650(3)(a)3. FAC
pH	s.u.	Max	Report	Single Sample	62-640.650(3)(a)3. FAC
Solids, Total, Sludge, Percent	percent	Max	Report	Single Sample	62-640.650(3)(a)3. FAC
Solids, Total, Sludge, Percent	percent	Max	Report	Monthly Average	62-640.650(3)(a)3. FAC
Coliform, Fecal	MPN/g	Max	1000.0	Single Sample	62-640.600(1)(a) FAC
Salmonella Sludge	MPN/4g	Max	3.0	Single Sample	62-640.600(1)(a) FAC
Monitoring Frequency		All Parameters			62-640.650(3)(a)4. & .850(4)(c) FAC
Pathogen and vector attraction reduction monitoring		All Parameters			62-640.600 & 650(3)(a)1. FAC

See the table below for the rationale for the biosolids quantities monitoring requirements.

Parameter	Units	Max/ Min	Limit	Statistical Basis	Rationale
Biosolids Quantity (Distributed & Marketed in FL)	dry tons	Max	Report	Monthly Total	62-640.650(5)(a)1. & 850(4)(a) FAC
Biosolids Quantity (Distributed & Marketed outside FL)	dry tons	Max	Report	Monthly Total	62-640.650(5)(a)1. & 850(4)(a) FAC
Biosolids Quantity (Land-Applied)	dry tons	Max	Report	Monthly Total	62-640.650(5)(a)1. FAC
Biosolids Quantity (Transferred)	dry tons	Max	Report	Monthly Total	62-640.650(5)(a)1. FAC
Biosolids Quantity (Landfilled)	dry tons	Max	Report	Monthly Total	62-640.650(5)(a)1. FAC
Monitoring Frequency		All Parameters			62-640.650(5)(a) FAC

6. GROUND WATER MONITORING REQUIREMENTS

Ground water monitoring requirements have been established in accordance with Chapters 62-520, 532, 601, 610, and 620, F.A.C.

7. PERMIT SCHEDULES

Permit renewal information is contained in the permit schedule. A permit revision requirement is in the permit schedule for the dibromochloromethane mixing zone once the mixing zone plan of study is complete and approved by the Department.

8. INDUSTRIAL PRETREATMENT REQUIREMENTS

The permittee has an active, approved industrial pretreatment program. The permit includes standard conditions requiring implementation and enforcement of the existing program.

9. ADMINISTRATIVE ORDERS (AO) AND CONSENT ORDERS (CO)

This facility has entered into CO-14-0156, executed 06/12/2014, with the Department, which includes a schedule of compliance. The Consent Order addresses the exceedances of Dibromochloromethane (Chlorodibromomethane). The current permit limitation based on the existing mixing zone is an annual average of 39 ug/L. The Consent Order Interim Limit is 60 ug/L, annual average, for a period of twenty-four months. The Consent Order requires a mixing zone plan of study to assess the availability of mixing in the receiving waters to allow for adjustment of the permitted mixing zone size and effluent limitations.

10. REQUESTED VARIANCES OR ALTERNATIVES TO REQUIRED STANDARDS

No variances were requested for this facility.

11. THE ADMINISTRATIVE RECORD

The administrative record including application, draft permit, fact sheet, public notice (after release), comments received and additional information is available for public inspection during normal business hours at the location specified in item 14. Copies will be provided at a minimal charge per page.

12. CHANGES FROM THE NOTICE OF DRAFT (NOD) TO FINAL PERMIT

On November 17, 2015, the Department received Minor typographical edits from the permittee. Edits were made accordingly.

The Department received comments from EPA on the Notice of Draft permit on October 30, November 16 and 17, 2015. All the comments were addressing on November 12, 13, 16 and 17, 2015. EPA concurred with the Department on November 17, 2015. All the correspondences are available for review or inspection on OCULUS.

13. PROPOSED SCHEDULE FOR PERMIT ISSUANCE

Draft Permit and Public Notice to Applicant and EPA	October 8, 2015
Public Comment Period	Beginning: October 8, 2015 Ending: November 17, 2015
Notice of Permit Issuance	November 2015

14. DEP CONTACT

Additional information concerning the permit and proposed schedule for permit issuance may be obtained during normal business hours from:

Astrid Flores Thiebaud
Engineer IV
Southwest District Office
13051 N Telecom Pkwy
Temple Terrace, FL 33637-0926
Telephone No.: (813) 470-5760